What is claimed is:

5

10

15

20

1. An electrosurgical probe for delivering energy to tissue, comprising:

a body having a working end comprising an interior conductor covered by a surface layer of a substantially insulative material;

at least one conductive element extending through the surface layer, wherein the conductive element has an exposed first end and an interior second end disposed proximate to the interior conductor; and

the surface layer defining a thermal expansion coefficient wherein the surface layer at a first lower temperature maintains said second end of the conductive element in contact with the interior conductor portion, and wherein the surface layer at a second higher temperature moves said second end away from contact with the interior conductor.

- 2. The working end of Claim 1 further comprising an electrical source operatively coupled to said interior conductor.
- 3. The working end of Claim 1 further comprising a return electrode carried about an exterior of the probe spaced apart from the surface layer.
  - 4. The working end of Claim 1 wherein the surface layer is a resilient material.
  - 5. The working end of Claim 1 wherein the surface layer is a polymer.

		6. The working end of Claim 1 wherein the surface layer is a polymer that defines a positive
	temperature coeff	ficient.
5	return electrode.	<ul><li>7. The working end of Claim 1 further comprising a resistor proximal to the surface layer.</li><li>8. The working end of Claim 3 further comprising a resistor between the interior conductor and the</li></ul>
10		9. The working end of Claim 1 wherein the surface layer is a ceramic.
		10. The working end of Claim 1 wherein the surface layer extends 360° about the exterior of probe.
		11. The working end of Claim 1 wherein the surface layer has an open cell structure.
15		12. The working end of Claim 1 wherein the surface layer has a closed cell structure.
	comprising:	13. A working end of a surgical probe for pressure-controlled Rf energy application to tissue,
		an interior electrode covered with an elastomeric surface layer;
20		at least one conductive element extending through the elastomeric surface layer, wherein the
	element	has an first exposed end and a second end disposed proximate to the interior electrode; and

wherein a selected pressure on the surface layer moves said second end of the conductive element into or away from electrical contact with the interior electrode.

5	14. The working end of Claim 13 further comprising an electrical source operatively coupled to said interior electrode.
	15. The working end of Claim 13 further comprising a return electrode carried about an exterior of the probe.
10	16. The working end of Claim 13 wherein the surface layer is a non-conductive polymer.
	17. The working end of Claim 13 wherein the surface layer is a polymer that defines a positive temperature coefficient.
15	18. The working end of Claim 13 wherein the surface layer comprises a silicone doped with a conductive composition.
	19. The working end of Claim 15 further comprising a resistor intermediate the interior electrode and the return electrode.
20	20. The working end of Claim 13 wherein the surface layer extends 360° about the exterior of probe.